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Soggetti	Natural language processing (Computer science) Signal processing Image processing Speech processing systems Programming languages (Electronic computers) Artificial intelligence Information storage and retrieval Application software Natural Language Processing (NLP) Signal, Image and Speech Processing Programming Languages, Compilers, Interpreters Artificial Intelligence Information Storage and Retrieval Information Systems Applications (incl. Internet)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Text -- Knowledge Sources for Word Sense Disambiguation -- The Current Status of the Prague Dependency Treebank -- Language Corpora: The Czech Case -- A Hybrid Logic Formalization of Information Structure Sensitive Discourse Interpretation -- he Possibilities of Automatic Detection/Correction of Errors in Tagged Corpora: A Pilot Study on a German Corpus -- Grammatical Agreement

and Automatic Morphological Disambiguation of Inflectional Languages -- Modelling Semantic Association and Conceptual Inheritance for Semantic Analysis -- Influence of Conditional Independence Assumption on Verb Subcategorization Detection -- Morphological Guesser of Czech Words -- Clustering Technique Based on Semantics for Definite Description Resolution -- Pronoun Resolution in Spanish from Full Parsing -- A Method of Accurate Robust Parsing of Czech -- A New Czech Morphological Analyser ajka -- Finding Semantically Related Words in Large Corpora -- Syntactic-Based Methods for Measuring Word Similarity -- The ATRACT Workbench: Automatic Term Recognition and Clustering for Terms -- Augmented Auditory Representation of e-Texts for Text-to-Speech Systems -- Enhancing the Valency Dictionary of Czech Verbs: Tectogrammatical Annotation -- An Interactive Graph Based Legal Information Retrieval System -- Text Segmentation into Paragraphs Based on Local Text Cohesion -- Building a Digital Collection of Web-Pages: Access and Filtering Information with Textual Expansion -- Three Approaches to Word Sense Disambiguation for Czech -- Method for WordNet Enrichment Using WSD -- Speech -- Human Speech Perception: Some Lessons from Automatic Speech Recognition -- Speech Technology in Reality — Applications, Their Challenges and Solutions -- Generative Phoneme-Threephone Model for ASR -- Algebraic Models of Speech Segment Databases -- Bayesian Noise Compensation of Time Trajectories of Spectral Coefficients for Robust Speech Recognition -- The Influence of a Filter Shape in Telephone-Based Recognition Module Using PLP Parameterization -- System for Speech Communication through Internet -- Phoneme Based ASR System for Slovak SpeechDat Database -- Large Vocabulary Continuous Speech Recognizer for Slovenian Language -- A Nonlinearized Discriminant Analysis and Its Application to Speech Impediment Therapy -- Speech Recognition Issues for Dutch Spoken Document Retrieval -- Multichannel Sound Acquisition with Stress Situations Determination for Medical Supervision in a Smart House -- Two-Pass Recognition of Czech Speech Using Adaptive Vocabulary -- Simulation of Speaking Styles with Adapted Prosody -- The Utterance Type and the Size of the Intonation Unit -- Estimation of Boundaries between Speech Units Using Bayesian Changepoint Detectors -- Data Driven Design of Filter Bank for Speech Recognition -- Minimization of Transition Noise and HNM Synthesis in Very Low Bit Rate Speech Coding -- Chinese Radicals and Top Ontology in EuroWordNet -- Towards a Dynamic Adjustment of the Language Weight -- Speech Recognition Based on Feature Extraction with Variable Rate Frequency Sampling -- The Phonectic SMS Reader -- Dialouge -- Research Issues for the Next Generation Spoken Dialogue Systems Revisited -- Determining User Interface Semantics Using Communicating Agents -- Agent-Based Adaptive Interaction and Dialogue Management Architecture for Speech Applications -- Dialogue for Web Search Utilizing Automatically Acquired Domain Knowledge -- A Development Tool for Spoken Dialogue Systems and Its Evaluation -- Using XML for Representing Domain Dependent Knowledge in Dialogos -- Dialogue Generation of Program Source Codes -- Semi-automatic Identification of Danish Discourse Deictics -- Language Understanding Using Two-Level Stochastic Models with POS and Semantic Units -- Shallow Processing and Cautious Incrementality in a Dialogue System Front End: Two Steps towards Robustness and Reactivity -- Creation of a Corpus of Training Sentences Based on Automated Dialogue Analysis -- Dialogue Manager in Dialogue System for Visually Impaired Programmers -- Help System in Dialogue Grammar Based Programming Environment for Visually Impaired Programmers -- Automatic

	Generation of Dialogue Interfaces for Web-Based Applications.
Sommario/riassunto	This book constitutes the refereed proceedings of the 4th International Conference on Text, Speech and Dialogue, TSD 2001, held in Zelezna Ruda, Czech Republic in September 2001. The 59 revised papers presented were carefully reviewed and selected from 117 submissions. The book presents a wealth of state-of-the-art research and development results from the field of natural language processing with emphasis on text, speech, and spoken language.